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ABSTRACT

This document is a collection of eight games from four continents. Students use mathematics that is directly relevant to them as they take part in the games. The first five games (NIM, Kalah, Tower of Hanoi, Shongo Networks, and Magic Squares) feature presentation instructions that describe multiple-session classroom activities for grades 5-8. Instructions suggest how to introduce the games and guide students to discover and articulate the mathematical concepts underlying them. Each of these five games can also be set up as stand-alone learning stations along with three additional games (Game Sticks, Games of Alignment, and Hex). A chart relating each game with mathematics strands from the Great Expectations in Mathematics and Science (GEMS) program is included. These strands are logic and language, pattern, number, algebra, discrete mathematics, functions, statistics and probability, and geometry. Discussions and guidelines for the teacher include making connections to other subjects, fitting into the curriculum, words of advice, making math around the world a school-wide festival, resources for games, assessment suggestions, literature suggestions, and summary outlines. (MKR)

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